**Occupant Protection and Automobile Safety in the U.S. since 1900**

*By Roger F. Wells*

This book provides a historical review of safety features appearing on passenger cars that have been produced for sale in the U.S. from 1900 to the present. A main theme throughout is the impact the automobile has made on society, with particular emphasis on accidents and loss of life. Another theme is the technological advances that have contributed to safer driving.

Even though the author details the technical details of the major safety-related components of automobiles, the book is written for anyone with an interest in the workings of motor vehicles.

Topics include:

- events driving the implementation of specific safety features
- government involvement and legislative actions
- effects of mandated and non-mandated implementation
- effects of safety technologies on annual passenger deaths
- technical details of specific innovations
- development of crash protection testing standards

Each of the five chapters covers a different period in the evolution of passenger cars. They include detailed descriptions of technologies and advancements that have directly contributed to the production, operation, and crash-survivability improvements made to automobiles. Also included are commentaries relating to influences of political and industry-driven initiatives, consumer reactions, and apparent effects of these influences on annual fatality rates.


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*By Rudolf Limpert*

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By Raymond M. Brach, Matthew Brach

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Bound to play an ever increasing role in the driver-vehicle relationship, connectivity is becoming a basic consumer requirement when it comes to choosing a vehicle. Moving from the computer into the car, the ability to stay in touch, informed and entertained has reached yet a higher level of technology ubiquity.

Featuring 20 SAE technical papers published in 2010 and 2011, Connectivity and the Mobility Industry addresses important aspects of one of the most cutting-edge topics in the industry today.
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• What to Expect Beyond 2015 - Fourth Generation Wireless and the Vehicle
• The Evolution of the Driving Experience and Associated Technologies
• Wireless Charging of Electric Vehicle Converged with Communication Technology

Part of the new paradigm of “green, safe and connected,” this title is of special interest to those looking for an integrated view of how the driving experience will develop within these boundaries, and what emerging technologies are likely to be successful in the upcoming years.
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By Jeffrey A. Pike

This book – the first in a series of three volumes on this subject -- focuses on head impact injuries and features 13 technical papers. These publications are primarily related to head impact and the resulting injury to the outside of the head -- the skin, the bones of the skull, and sensory organs.
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By Jeffrey A. Pike

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By Jeffrey A. Pike

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Active Safety and the Mobility Industry
By Dr. Andrew Brown, Jr.
Safety is a key element in new vehicle design and active safety, together with driver distraction prevention, has become one of the most talked about issues in the mobility industry.
This book features 20 SAE technical papers, originally published in 2009 and 2010, which showcase how the mobility industry is considering all aspects of safety in designing and producing safer vehicles. These papers were selected by SAE International’s 2010 President Dr. Andrew Brown Jr., Executive Director and Chief Technologist for Delphi Corporation.
The contents of this book explore a variety of safety issues in the areas of market and consumer preferences; driver assistance and modeling; active safety system, crash sensing and sensor fusion; communications; and road safety. The publication also includes a number of articles authored by renowned experts in the field of active safety.
This book is the second in the trilogy from SAE on “Safe, Green and Connected” vehicles in the mobility industry edited by Dr. Andrew Brown, Jr.
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This multi-authored book is thoroughly vetted and includes chapter contributions from highly qualified practitioners in the field. A total of 19 technical papers are featured and are broken into six chapters. Each chapter begins with a brief summary and analysis of the research for that topic, and is followed by a selection of references. The remainder of the chapter includes a selection of the very best full-length technical papers on the topic, which are intended to provide depth and compliment the new material.
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By Eugene Faber, Robert Dewar, Paul Olson
This third edition contains invaluable new information you need to know about driver perception and response, and related human factors and design issues.
978-1-933264-78-3, 494 pp., 2010.
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Dictionary of Automotive Engineering
By Ingo Stuben
Unlike standard dictionaries, this specialized dictionary provides valuable aid to the expert (engineer or mechanic), student, and other interested parties who seek a better understanding of technical terms and precise definitions specific to automobiles.
978-3-8169-2941-3, 328 pp., Paperbound 2010.
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By Marc Green, Merrill Allen, Bernard S. Abrams, Leslie Weintraub, J. Vernon Odom
Written for attorneys, law enforcement personnel, optometrists, highway engineers, automobile manufacturers, legislators, expert witnesses, and other related professionals, this book is your reference for accident cases with a vision component.
978-1-033264-54-3, 496 pp., 2008.
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Commercial Vehicle Accident Reconstruction and Investigation, 2nd Edition
By Rick W. Varner, Roy F. Sutphen
The authors of this text discuss in great detail the unique aspects of commercial vehicle operation, performance and regulations, as well as human factors.
978-1-933264-83-7, 448 pp., 2010.
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This unique e-book chronicles the top Honda technical developments from October 2007 through March 2008. The 25 papers included give rare insight into the Honda’s worldwide R&D team and cover automotive, motorcycle, power products, and other fundamental technologies.
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By Kenneth S. Obenski, Paul Hill, Eric S. Shapiro, Jack C. Debes
This book, written for professional accident reconstructionists, lawyers, and forensic engineers, is organized in two sections on forensic engineering reconstruction of motorcycle accidents and legal analysis.
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By Merrill J. Allen, Bernard S. Abrams, Arthur P. Ginsburg, Leslie Weintraub
This book brings together research and analyses to identify the factors that contribute to the impaired vision of the driver. It takes a practical look at what is needed to improve the visual aspects of the driving task.
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This report covers passenger cars, light trucks, SUVs and MPVs. Road safety failures are a major stain on the record of an advanced society. No better example of Society’s failure on the safety front is its past inability to control and reduce death and injury on the roads.
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Active Safety Systems Report, Volume II — Technology
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This two-volume report focuses on supporting and promoting improved crash avoidance technology in vehicles and also looks at some aspects of vehicle-to-infrastructure communications.
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